## Science and disaster management for social justice

**an NSTF Discussion Forum in collaboration with the NSTF Science Councils and Statutory Bodies sector**

5-6 December 2022

### Day 1: 5 December

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Topic</th>
<th>Speaker/Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>9:10</td>
<td>Welcome to participants, introductions; and intended outcomes</td>
<td><strong>Ms Jansie Niehaus</strong>, Executive Director: NSTF</td>
</tr>
<tr>
<td>9:10</td>
<td>9:40</td>
<td>Keynote: Prevention of epidemic and pandemic disasters – A transdisciplinary health perspective</td>
<td><strong>Prof Petra Bester</strong>, Director: The African Unit for Transdisciplinary Health Research (AUTHeR), North-West University (NWU)</td>
</tr>
<tr>
<td>9:40</td>
<td>10:10</td>
<td>Building Communities' Trust for Public Health Disaster Resilience</td>
<td><strong>Prof Lekan-Ayo Yusuf</strong>, Chairperson: School of Health Systems and Public Health, University of Pretoria (UP)</td>
</tr>
<tr>
<td>10:10</td>
<td>10:30</td>
<td>Tea/coffee break</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>11:00</td>
<td>The role of science, research and technology in the management of large-scale disaster affecting vulnerable communities in South Africa.</td>
<td><strong>Mr Dechlan Pillay</strong>, Director: Information Technology, Intelligence and Information Management Services, National Disaster Management Centre (NDMC)</td>
</tr>
<tr>
<td>11:00</td>
<td>11:30</td>
<td>Our creeping disaster – under-maintained infrastructure</td>
<td><strong>Prof Kevin Wall</strong>, Extraordinary Professor: Department of Construction Economics, University of Pretoria (UP); and 2018 <strong>NSTF Lifetime Award Winner</strong></td>
</tr>
<tr>
<td>11:30</td>
<td>11:55</td>
<td>Q&amp;A and discussion</td>
<td>All</td>
</tr>
<tr>
<td>11:55</td>
<td>12:00</td>
<td>Wrap up and closure</td>
<td><strong>Ms Niehaus</strong></td>
</tr>
</tbody>
</table>
## Day 2: 6 December

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Topic</th>
<th>Speaker/Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>9:10</td>
<td>Welcome to participants, introductions; and intended outcomes</td>
<td><strong>Ms Jansie Niehaus</strong>, Executive Director: NSTF</td>
</tr>
<tr>
<td>9:10</td>
<td>9:40</td>
<td>Water-related disasters: Projected extremes at climate change scale and the need to build a resilient water future</td>
<td><strong>Dr Brilliant Petja</strong>, Research Manager: Climate Change, Water Research Commission (WRC)</td>
</tr>
<tr>
<td>9:40</td>
<td>10:10</td>
<td>Remote sensing applications to flood disasters</td>
<td><strong>Mr Morwapula Mashalane</strong>, Remote Sensing Scientist, South African National Space Agency (SANSA)</td>
</tr>
<tr>
<td>10:10</td>
<td></td>
<td><strong>Tea/coffee break</strong></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>11:00</td>
<td>Management of forests, grasslands and crops to fight fire, what are the measures to take?</td>
<td><strong>Prof Kevin Kirkman</strong>, Dean of Research for the College of Agriculture, Engineering and Science, University of KwaZulu-Natal (UKZN)</td>
</tr>
<tr>
<td>11:00</td>
<td>11:30</td>
<td>Preventing and preparation of nuclear disasters</td>
<td><strong>Mr Charles Kros</strong>, Radiation Protection Specialist, South African Nuclear Energy Corporation (NECSA)</td>
</tr>
<tr>
<td>11:30</td>
<td>11:55</td>
<td><strong>Q&amp;A and discussion</strong></td>
<td><strong>All</strong></td>
</tr>
<tr>
<td>11:55</td>
<td>12:00</td>
<td>Wrap up and closure</td>
<td><strong>Ms Niehaus</strong></td>
</tr>
</tbody>
</table>

**National Science and Technology Forum (NSTF)**

- Independent non-profit stakeholder body and network
- Unified voice for the science, engineering, technology (SET) and innovation community
- Includes private and public sectors
- Promoting SET and innovation in South Africa since 1995